

## First Hit

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TITLE: Use of enzymes from *Helicobacter pylori* as therapeutical targetsDescription of Disclosure:

[0294] [0295] Alm, R. A., Ling, L. S., Moir, D. T., King, B. L., Brown, E. D., Doig, P. C., Smith, D. R., Noonan, B., Guild, B. C., deJonge, B. L., Carmel, G., Tummino, P. J., Caruso, A., Uria437 Nickelsen, M., Mills, D. M., Ives, C., Gibson, R., Merberg, D., Mills, S. D., Jiang, Q., Taylor, D. E., Vovis, G. F., and Trust, T. J. (1999) Genomic-sequence comparison of two unrelated isolates of the human gastric pathogen *Helicobacter pylori*. *Nature* 397: 176-180. [0296] Antignac, A., Rousselle, J. C., Namane, A., Labigne, A., Taha, M. K., and Boneca, I. G. (2003) Detailed structural analysis of the peptidoglycan of the human pathogen *Neisseria meningitidis*. *J Biol Chem* 278: 31521-31528. [0297] Boneca, I. G., Huang, Z. H., Gage, D. A., and Tomasz, A. (2000) Characterization of *Staphylococcus aureus* cell wall glycan strands, evidence for a new beta-N-acetylglucosaminidase activity. *J Biol Chem* 275: 9910-9918. [0298] Boneca, I. G., de Reuse, H., Epinat, J. C., Pupin, M., Labigne, A., and Mosser, I. (2003) A revised annotation and comparative analysis of *Helicobacter pylori* genomes. *Nucleic Acids Res* 31: 1704-1714. [0299] Bury-Mone, S., Thiberge, J. M., Contreras, M., Maitournam, A., Labigne, A., and De Reuse, H. (2004) Responsiveness to acidity via metal ion regulators mediates virulence in the gastric pathogen *Helicobacter pylori*. *Mol Microbiol* 53: 623-638. [0300] Casadaban, M. J., and Cohen, S. N. (1980) Analysis of gene control signals by DNA fusion and cloning in *Escherichia coli*. *J Mol Biol* 138: 179-207. [0301] Costa, K., Bacher, G., Allmaier, G., Dominguez-Bello, M. G., Engstrand, L., Falk, P., de Pedro, M. A., and Garcia-del Portillo, F. (1999) The morphological transition of *Helicobacter pylori* cells from spiral to coccoid is preceded by a substantial modification of the cell wall. *J Bacteriol* 181: 3710-3715. [0302] Ferrero, R. L., Thiberge, J. M., Kansau, I., Wuscher, N., Huerre, M., and Labigne, A. (1995) The GroES homolog of *Helicobacter pylori* confers protective immunity against mucosal infection in mice. *Proc Natl Acad Sci U S A* 92: 6499-6503. [0303] Ferrero, R. L., Thiberge, J. M., Huerre, M., and Labigne, A. (1998) Immune responses of specific-pathogen-free mice to chronic *Helicobacter pylori* (strain SS1) infection. *Infect Immun* 66: 1349-1355. [0304] Glauner, B. (1988) Separation and quantification of mucopeptides with high-performance liquid chromatography. *Anal Biochem* 172: 451-464. [0305] Glauner, B., Holtje, J. V., and Schwarz, U. (1988) The composition of the murein of *Escherichia coli*. *J Biol Chem* 263: 10088-10095. [0306] Harz, H., Burgdorf, K., and Holtje, J. V. (1990) Isolation and separation of the glycan strands from murein of *Escherichia coli* by reversed-phase high-performance liquid chromatography. *Anal Biochem* 190: 120-128. [0307] Heidrich, C., Templin, M. F., Ursinus, A., Merdanovic, M., Berger, J., Schwarz, H., de Pedro, M. A., and Holtje, J. V. (2001) Involvement of N-acetylmuramyl-L-alanine amidases in cell separation and antibiotic-induced autolysis of *Escherichia coli*. *Mol Microbiol* 41: 167-178. [0308] Ishidate, K., Ursinus, A., Holtje, J. V., and Rothfield, L. (1998) Analysis of the length distribution of murein glycan strands in *ftsZ* and *ftsI* mutants of *E. coli*. *FEMS Microbiol Lett* 168: 71-75. [0309] Israel, D. A., Salama, N., Arnold, C. N., Moss, S. F., Ando, T., Wirth, H. P., Tham, K. T., Camorlinga, M., Blaser, M. J., Falkow, S., and Peek, R. M., Jr. (2001) *Helicobacter pylori* strain-specific differences in genetic content, identified by microarray, influence host inflammatory responses. *J Clin Invest* 107: 611-620. [0310] Londono-Arcila, P., Freeman, D., Kleanthous, H., O'Dowd, A. M., Lewis, S., Turner, A. K.,

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